

**National
Aeronautical
Laboratory****Documentation Sheet****Document Classification**

RESTRICTED

Title : SOFTWARE MODULE FOR THE
CALCULATION OF RVR IN AVRA Mk II**Document No.**

PD MT 9201

Date of issue: Jan. 1992**Author(s)** : H Leelavathi**Contents** 14 pages**Division** : Materials Science**No. of copies:** 5**External
participation** : --**NAL Project No.**
MT-8-322**Sponsor** : --**Sponsor's Project No.****Approval** : **Remarks** : --**Keywords** : Runway Visual Range, Software

Abstract : This document describes the software module used for the computation of Runway Visual Range (RVR) in the AVRA MkII. The algorithm used is the Newton-Raphson iteration procedure. The software is written in 8086 assembly language. The numeric processor 8087 is invoked to do accurate floating point calculations. The look up tables for extinction values is thus completely avoided. The module can be called from another assembly language module. With some modifications it can also be called from a high level language.